

인공지능 데이터 분석 orange



소프트웨어융합대학원
진혜진

■ 학습할 데이터 불러오기

■ sample data

	A	B	C	D	E
1	날짜	요일	온도	판매량	오픈시간
2	2022-05-16 0:00	월	24	50	9:00
3	2022-05-17 0:00	화	27	56	9:01
4	2022-05-18 0:00	수	25	60	9:02
5	2022-05-19 0:00	목	24	67	9:01
6	2022-05-20 0:00	금	26	75	9:10

Untitled * - Orange

File Edit View Widget Options Help

Data

- File
- CSV File Import
- Datasets
- SQL Table
- Data Table
- Paint Data
- Data Info
- Rank
- Edit Domain
- Color
- Feature Statistics
- Save Data

Transform

- Data Sampler
- Select Columns
- Select Rows
- Transpose

File

File - Orange

Source

☒ File: 커피 판매량.xlsx

☐ URL:

File Type

Automatically detect type

Info

5 instance(s)
4 feature(s) (no missing values)
Data has no target variable.
1 meta attribute(s)

Columns (Double click to edit)

	Name	Type	Role	Values
1	날짜	datetime	feature	
2	온도	numeric	feature	
3	판매량	numeric	feature	
4	오픈시간	datetime	feature	
5	요일	text	meta	

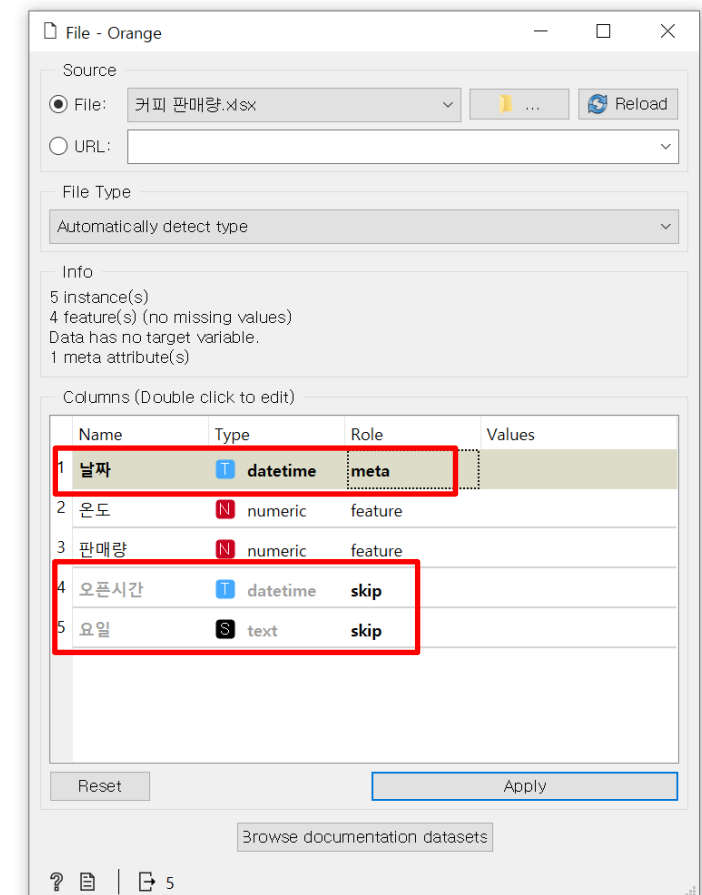
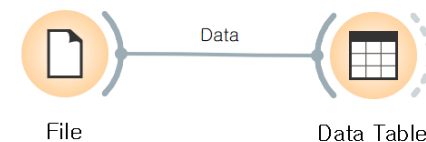
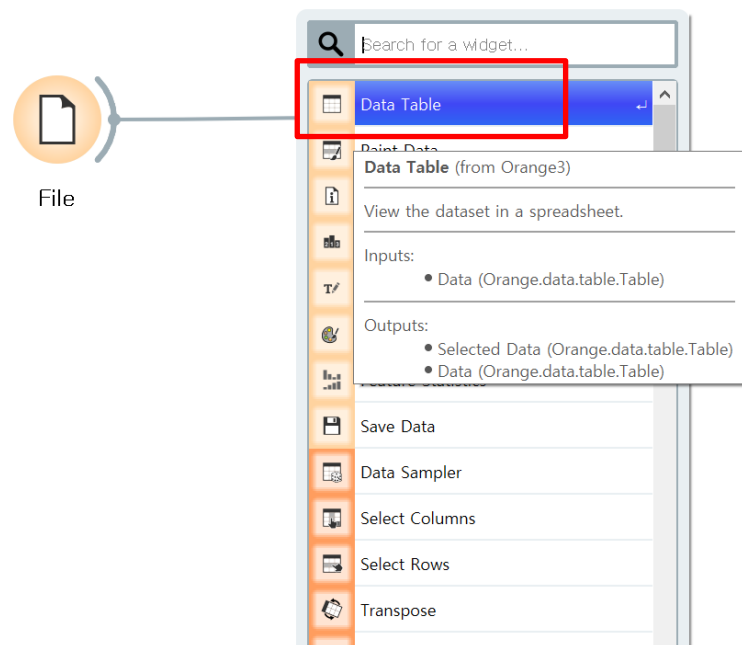


Diagram showing the workflow: **File** (orange circle with document icon) → **Data** (arrow) → **Data Table** (orange circle with grid icon).

Data Table - Orange

Info
5 instances (no missing data)
2 features
No target variable.
1 meta attribute

Variables
☒ Show variable labels (if present)
☐ Visualize numeric values
☒ Color by instance classes

Selection
☒ Select full rows

	날짜	온도	판매량
1	2022-05-16 00...	24	50
2	2022-05-17 00...	27	56
3	2022-05-18 00...	25	60
4	2022-05-19 00...	24	67
5	2022-05-20 00...	26	75

File - Orange

Source
☒ File: 커피 판매량.xlsx
☐ URL:

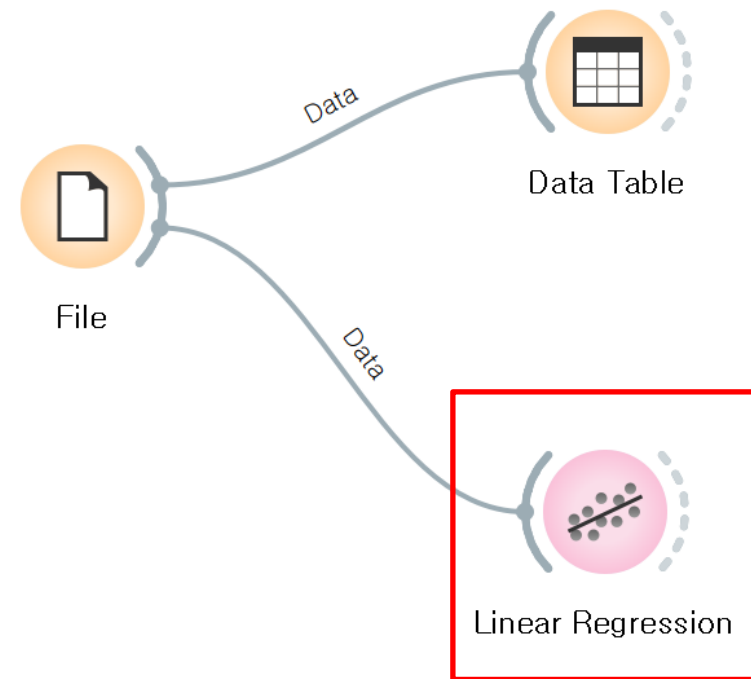
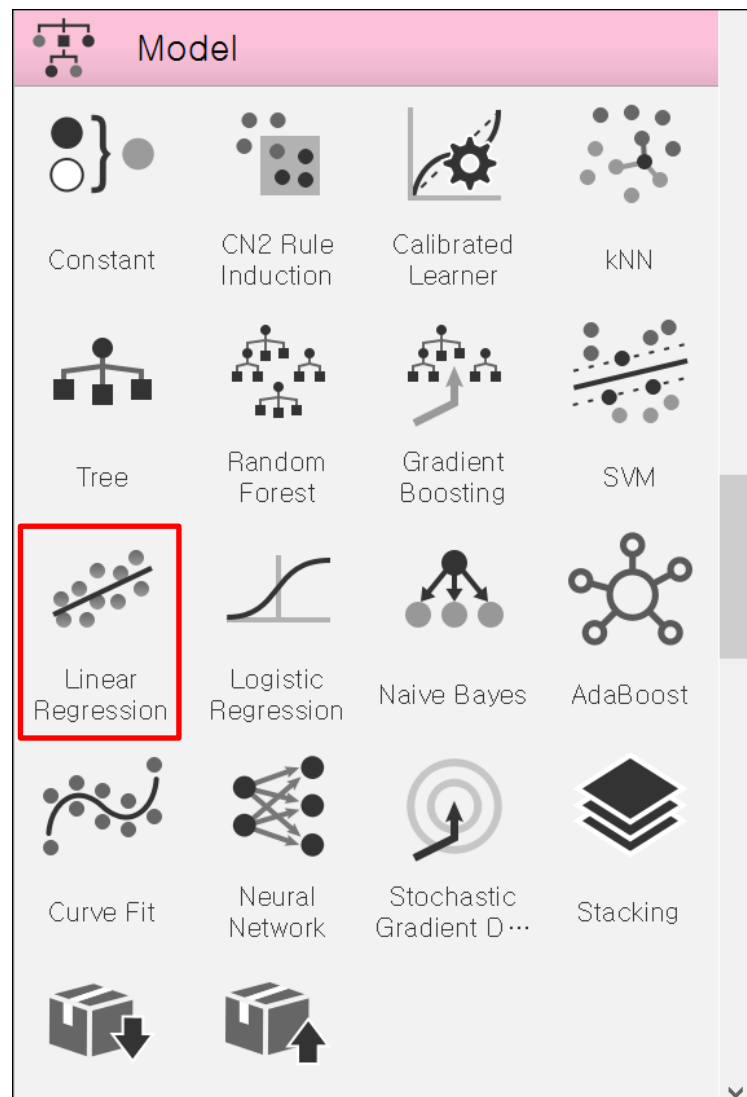
File Type
Automatically detect type

Info
5 instance(s)
4 feature(s) (no missing values)
Data has no target variable.
1 meta attribute(s)

Columns (Double click to edit)

	Name	Type	Role	Values
1	날짜	T datetime	meta	
2	온도	N numeric	feature	
3	판매량	N numeric	target	
4	오픈시간	T datetime	skip	
5	요일	S text	skip	

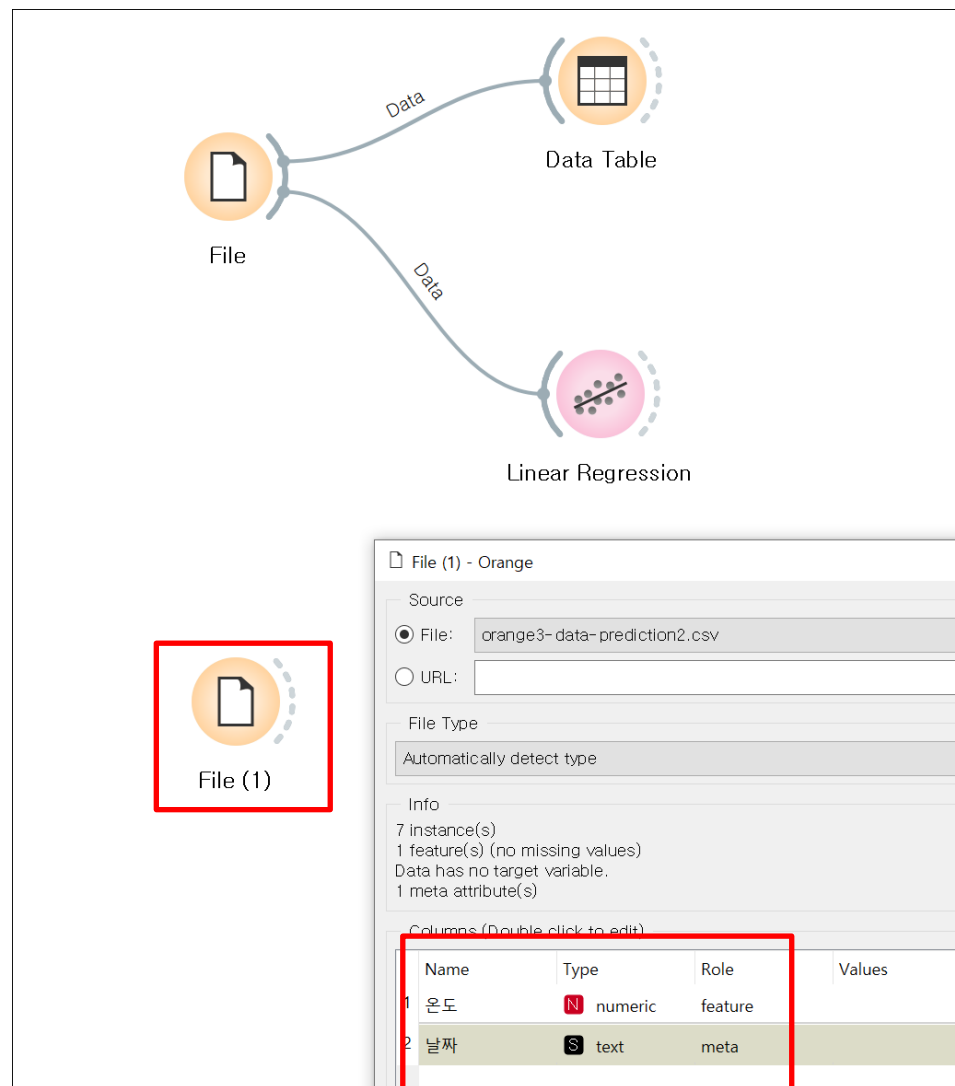
? | 5



■ 예측할 데이터 불러오기

■ orange3-data-prediction2

	A	B	
1	날짜	온도	
2	2022-05-21 0:00	25	
3	2022-05-22 0:00	27	
4	2022-05-23 0:00	29	
5	2022-05-24 0:00	29	
6	2022-05-25 0:00	29	
7	2022-05-26 0:00	25	
8	2022-05-27 0:00	26	



Data Table (1) - Orange

Info

- 7 instances (no missing data)
- 1 feature
- No target variable.
- 1 meta attribute

Variables

- ☒ Show variable labels (if present)
- ☐ Visualize numeric values
- ☒ Color by instance classes

Selection

- ☒ Select full rows

	날짜	온도
1	2022-05-21 0:00	25
2	2022-05-22 0:00	27
3	2022-05-23 0:00	29
4	2022-05-24 0:00	29
5	2022-05-25 0:00	29
6	2022-05-26 0:00	25
7	2022-05-27 0:00	26

File Edit View Widget Options Help

Regression

Curve Fit Neural Network Stochastic Gradient D... Stacking

Save Model Load Model

Evaluate

Test and Score **Predictions** Confusion Matrix ROC Analysis

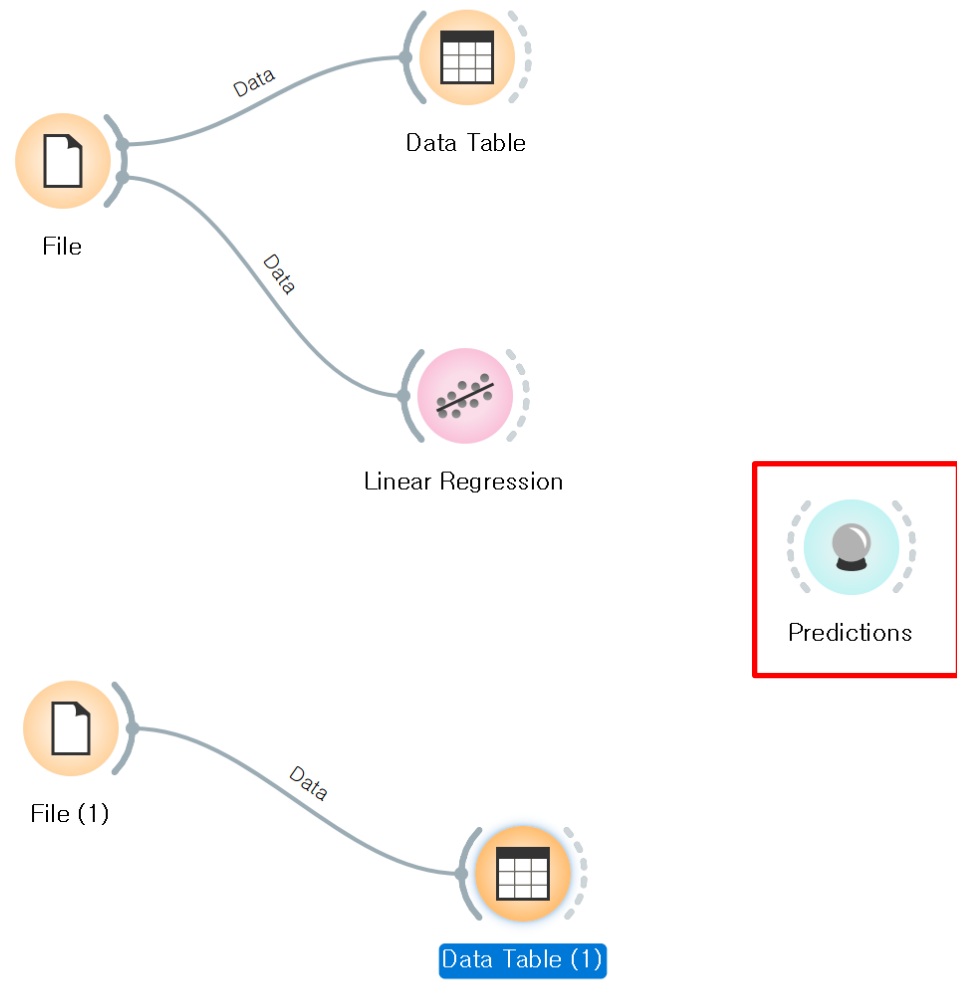
Lift Curve Calibration Plot

Unsupervised

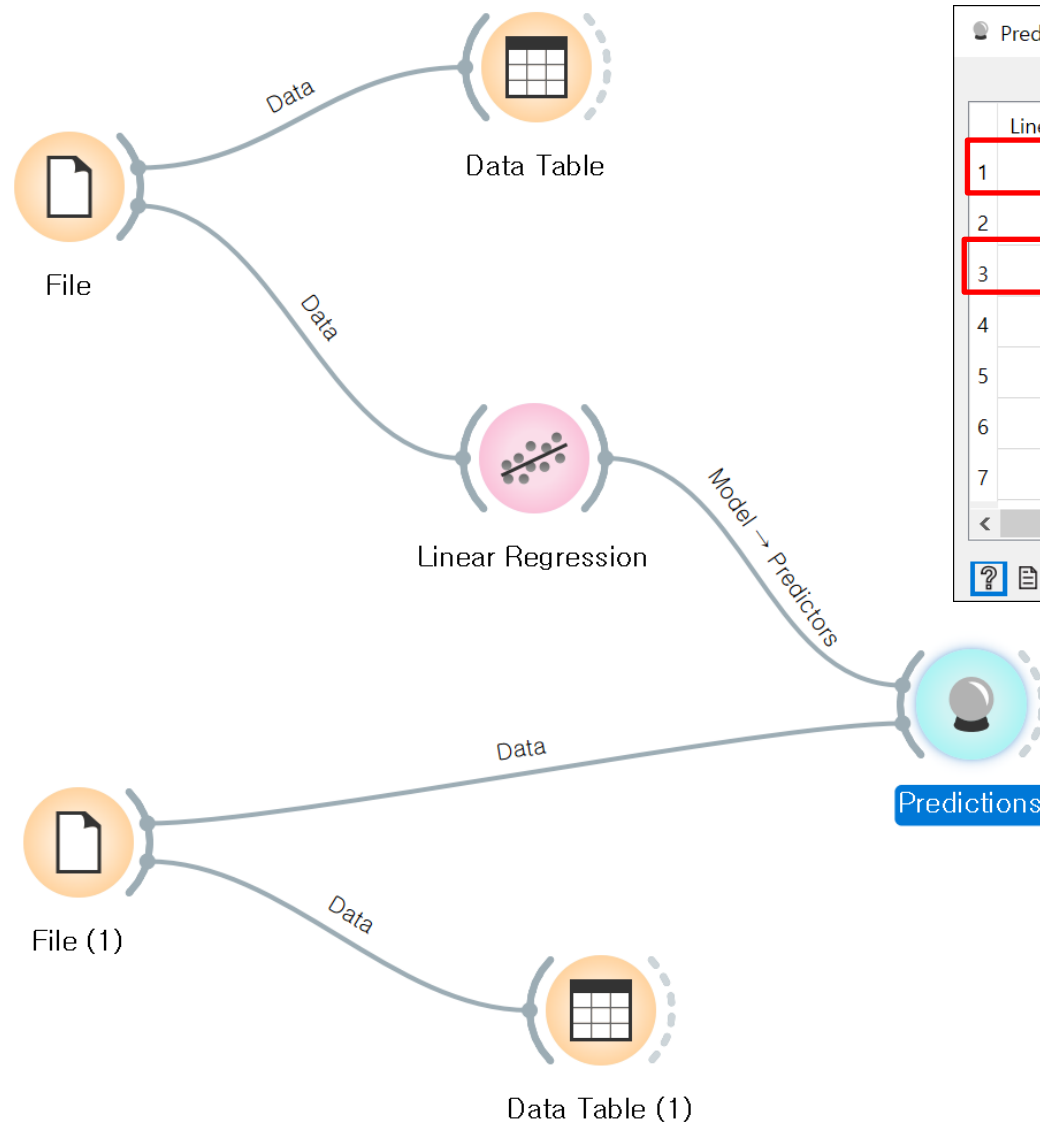
Data Table

View the dataset in a spreadsheet.

[more...](#)



```
graph LR; File((File)) -- Data --> DT1((Data Table)); File -- Data --> LR((Linear Regression)); File1((File (1))) -- Data --> DT2((Data Table (1))); Predictions[Predictions]
```



Predictions - Orange

Restore Original Order

	Linear Regression	날짜	온도
1	61	2022-05-21 0:00	25
2	64	2022-05-22 0:00	27
3	66	2022-05-23 0:00	29
4	66	2022-05-24 0:00	29
5	66	2022-05-25 0:00	29
6	61	2022-05-26 0:00	25
7	63	2022-05-27 0:00	26

? | 7 | 7 | -